

IN THE CLAIMS:

1. (Currently Amended) An approval authority registration system which comprises terminals, a database, and a database management apparatus interconnected via a network and registers, with the database, wherein one or more pieces of approval relation information, each of which shows relationships between approval-authorized persons and approval-object persons 5 indicates a relationship between an approval-authorized person and an approval object person who are both users of the approval authority registration system[[,]] and indicates an effective period of the relationship, have been registered with the database, wherein

the database management apparatus includes:

10 a receiving unit operable configured to receive, from a user via a terminal, a registration request requesting registration of a new piece of approval relation information with the database;

a first judging unit operable configured to judge whether the user who input the registration request matches either an approval-authorized person or an approval object person specified in the requested piece of approval relation information; [[and]]

15 a second judging unit configured to, only when the first judging unit has judged that the user matches neither the specified approval-authorized person nor the specified approval object person, judge whether there is a no-approval-authorized-person period between an effective period indicated by the new piece of approval relation information which is one of the one or more pieces of approval relation information having been registered with the database and 20 indicates a same approval object person as the new piece of approval relation information; and

a registration unit operable configured to register the new piece of approval relation information with the database if the judging unit judges that the user matches neither the specified approval authorized person nor the specified approval object person.

when the second judging unit has judged that there is no no-approval-authorized-person period, and provide a warning that there is the no-approval-authorized-person period and prevent the new piece of approval relation information from being registered with the database when the second judging unit has judged that there is the no-approval-authorized-person period.

2. (Currently Amended) The approval authority registration system of Claim 1, wherein

the database includes an attribute database with which user attribute information showing attributes of the users is registered,

5 the first judging unit further judges whether an attribute of the user who input the registration request satisfies a predetermined condition by referring to the user attribute information, and

10 the registration unit registers the piece of approval relation information with the database if the judging unit judges that the attribute of the user satisfies the predetermined condition. the second judging unit judges whether there is the no-approval-authorized-person period when the first judging unit has judged that the attribute of the user satisfies the predetermined condition.

3. (Currently Amended) The approval authority registration system of Claim 2,
wherein

the first judging unit further judges whether an attribute of the specified approval-
authorized person satisfies a predetermined condition by referring to the user attribute
information, and

~~the registration unit registers the piece of approval relation information with the
database if the judging unit judges that the second judging unit judges whether there is the
no-approval-authorized-person period when the first judging unit has judged that the attribute of
the specified approval-authorized person satisfies the predetermined condition.~~

4. (Currently Amended) The approval authority registration system of Claim 1,
wherein

the receiving unit further receives, from a user via a terminal, a registration
request requesting registration of a piece of approval relation information specifying a proxy
5 approval-authorized person,

the first judging unit further judges whether the user who input the latter
registration request matches an approval-authorized person indicated by a piece of approval
relation information that has already been registered with the database, and

10 the registration unit registers the latter piece of approval relation information with
the database if the judging unit judges that the user who input the latter registration request
matches the approval-authorized person indicated by the already-registered piece of approval
relation information.

5. (Currently Amended) The approval authority registration system of Claim 4,
wherein

each piece of approval relation information further includes (i) effective period
information that indicates an effective period of the piece of approval relation information and
5 (ii) user information that indicates a user who input a registration request requesting registration
of the piece of approval relation information user information that indicates a user who input a
registration request requesting registration of the piece of approval relation information, and

the database management apparatus further includes:

a storage unit operable configured to store a list of notification destinations
10 respectively corresponding to the users of the approval authority registration system;

a monitoring unit operable configured to monitor, at regular intervals, one or more
effective period information included in periods respectively indicated by one or more pieces of
approval relation information which, among the one or more pieces of approval relation
information having been registered with the database, specify proxy approval-authorized
15 persons[[,]]; and operable to judge whether any of the one or more pieces of approval relation
information has an effective period end date that is within a predetermined range of days
including a day on which the monitoring unit is currently monitoring; and

a notification unit operable configured to, if when the monitoring unit judges has
judged that one of the monitored one or more pieces of approval relation information has an
20 effective period end date that is that expires within [[the]] a predetermined range of days, notifies
a notification destination corresponding to a user indicated by the one of the monitored one or
more pieces of approval relation information, of the judgment result by the monitoring unit.

6. (Currently Amended) The approval authority registration system of Claim 1,
wherein

the registration unit further registers a piece of update history information with the
database each time a user newly registers or updates a piece of approval relation information,

5 the receiving unit further receives, from a user via a terminal, a request to obtain a
piece of update history information, and

the database management apparatus further includes

a history information distribution unit operable configured to read the requested
piece of update history information from the database and distribute the read piece of update
10 history information to the terminal.

7. (Currently Amended) The approval authority registration system of Claim 1,
wherein

the receiving unit further receives an approval request from a user via a terminal,
and

5 the database management apparatus further includes:

an identifying unit operable configured to identify, by referring to approval
relation information registered with the database, an approval-authorized person to whom the
user, as an approval object person, corresponds;

an approval request distribution unit operable configured to distribute the received
10 approval request to the identified approval-authorized person;

an obtaining unit operable configured to obtain approval information, which indicates an approval or a denial by the approval-authorized person in response to the approval request, from the approval-authorized person via a terminal; and

an approval information distribution unit operable configured to distribute the 15 obtained approval information to the user who sent the approval request.

8. (Currently Amended) The approval authority registration system of Claim 1, wherein

each piece of approval relation information to be registered and having been registered with the database includes responsible person classification information that indicates 5 whether an approval-authorized person specified in the piece of approval relation information is a responsible person or proxy, wherein

if the receiving unit receives a piece of approval relation information with responsible person classification information indicating that an approval-authorized person is proxy, the judging unit judges whether the user who input a registration request requesting 10 registration of the received piece of approval relation information matches a responsible person indicated by a piece of approval relation information that has already been registered with the database, and

~~the registration unit registers the received piece of approval relation information with the database if the judging unit judges that the user who input the registration request 15 matches the responsible person indicated by the already registered piece of approval relation information.~~

the second judging unit judges whether there is the no-approval-authorized-person period when the first judging unit has judged that the user who input the registration request matches the responsible person.

9. (Cancelled)

10. (Currently Amended) An approval authority registration method for use in a database management apparatus comprised in an approval authority registration system which comprises terminals and a database as well, and registers approval relation information with the database, wherein the database management apparatus, the terminals, and the database are interconnected via a network, the and one or more pieces of approval relation information, showing relationships between approval-authorized persons and approval object persons each of which indicates a relationship between an approval-authorized person and an approval object person who are both users of the approval authority registration system[[],] and indicates an effective period of the relationship, have been registered with the database, wherein

10 the approval authority registration method includes:

a receiving step for receiving, from a user via a terminal, a registration request requesting registration of a new piece of approval relation information with the database;

15 a first judging step for judging whether the user who input the registration request matches either an approval-authorized person or an approval object person specified in the requested piece of approval relation information; [[and]]

a second judging step for, only when the first judging step has judged that the user matches neither the specified approval-authorized person nor the specified approval object person, judging whether there is a no-approval-authorized-person period between an effective

period indicated by the new piece of approval relation information and an effective period
20 indicated by a piece of approval relation information which is one of the one or more pieces of
approval relation information having been registered with the database and indicates a same
approval object person as the new piece of approval relation information; and

a registration step for registering the new piece of approval relation information
with the database if the judging unit judges that the user matches neither the specified approval-
25 authorized person nor the specified approval object person when the second judging step has
judged that there is no no-approval-authorized-person period, and providing a warning that there
is the no-approval-authorized-person period and preventing the new piece of approval relation
information from being registered with the database when the second judging step has judged
that there is the no-approval-authorized-person period.

11. (Currently Amended) An approval authority registration program for use in a
database management apparatus comprised in an approval authority registration system which
comprises terminals and a database as well, and registers approval relation information with the
database, wherein the database management apparatus, the terminals, and the database are
5 interconnected via a network, the and one or more pieces of approval relation information,
showing relationships between approval-authorized persons and approval object persons each of
which indicates a relationship between an approval-authorized person and an approval object
person who are both users of the approval authority registration system and indicates an effective
period of the relationship, have been registered with the database, wherein

10 the approval authority registration program includes:

a receiving step instruction for receiving, from a user via a terminal, a registration request requesting registration of a new piece of approval relation information with the database;

a first judging step instruction for judging whether the user who input the registration request matches either an approval-authorized person or an approval object person
15 specified in the requested piece of approval relation information; [[and]]

a second judging instruction for, only when the first judging has judged that the user matches neither the specified approval-authorized person nor the specified approval object person, judging whether there is a no-approval-authorized-person period between an effective period indicated by the new piece of approval relation information and an effective period
20 indicated by a piece of approval relation information which is one of the one or more pieces of approval relation information having been registered with the database and indicates a same approval object person as the new piece of approval relation information; and

a registration step instruction for registering the new piece of approval relation information with the database if the judging unit judges that the user matches neither the specified approval-authorized person nor the specified approval object person when the second judging has judged that there is no no-approval-authorized-person period, and providing a warning that there is the no-approval-authorized-person and preventing that new piece of approval relation information from being registered with the database when the second judging has judged that there is the no-approval-authorized-person period.

12. (Currently Amended) A computer-readable recording medium recording therein an approval authority registration program for use in a database management apparatus comprised in an approval authority registration system which comprises terminals and a database

as well, and registers approval relation information with the database, wherein the database management apparatus, the terminals, and the database are interconnected via a network, and one or more pieces of approval relation information, showing relationships between approval-authorized persons and approval object persons each of which indicates a relationship between an approval-authorized person and an approval object person who are both users of the approval authority registration system and indicates an effective period of the relationship, have been registered with the database, wherein

the approval authority registration program includes:

a receiving step instruction for receiving, from a user via a terminal, a registration request requesting registration of a new piece of approval relation information with the database;

a first judging step instruction for judging whether the user who input the registration request matches either an approval-authorized person or an approval object person specified in the requested piece of approval relation information; [[and]]

a second judging instruction for, only when the first judging has judged that the user matches neither the specified approval-authorized person nor the specified approval object person, judging whether there is a no-approval-authorized-person period between an effective period indicated by the new piece of approval relation information and an effective period indicated by a piece of approval relation information which is one of the one or more pieces of approval relation information having been registered with the database and indicates a same approval object person as the new piece of approval relation information; and

a registration step instruction for registering the new piece of approval relation information with the database if the judging unit judges that the user matches neither the specified approval-authorized person nor the specified approval object person when the second

judging has judged that there is no no-approval-authorized-person period, and providing a warning that there is the no-approval-authorized-person period and preventing that new piece of approval relation information from being registered with the database when the second judging has judged that there is the no-approval-authorized-person period.

13. (New) The approval authority registration system of Claim 1, wherein in the one or more pieces of approval relation information, the approval-authorized person is defined as a superior of the approval object person and the approval object person is defined as a subordinate of the approval-authorized person.